

THE CLAIMS

1. (Original) A metal halide lamp having an arc tube formed of ceramic and a pair of opposing electrodes, comprising:

a Pr (praseodymium) halide, a Na (sodium) halide, and a Ca (calcium) halide enclosed within the arc tube, wherein

the Pr halide content Hp [mol], the Na halide content Hn [mol], and the Ca halide content Hc [mol] satisfy the relationships of:

$0.4 \leq Hc/Hp \leq 15.0$; and

$3.0 \leq Hn/Hp \leq 25.0$.

2. (Original) The metal halide lamp of claim 1, wherein each of the Pr halide content, the Na halide content, and the Ca halide content is equal to or greater than 1.0 mg/cm^3 .

3. (Original) The metal halide lamp of claim 1, wherein $0.4 \leq Hc/Hp \leq 4.7$.

4. (Original) The metal halide lamp of claim 1, wherein $11.9 \leq Hc/Hp \leq 15$.

5. (Original) The metal halide lamp of claim 1, wherein an inner diameter D(mm) of the arc tube and a distance L(mm) between tips of the electrodes satisfy the relationship $4 \leq L/D \leq 9$.

6. (Original) The metal halide lamp of claim 1, comprising an outer tube for accommodating the arc tube,

wherein an interspace between the arc tube and the outer tube is retained in a decompressed state at 1 kPa or less.

7. (Original) The metal halide lamp of claim 1 having a general color rendering index Ra of 70 or more, and a lamp efficiency of 100 LPW or more.

8. (Previously presented) An illumination device comprising:
the metal halide lamp of claim 1; and
means for performing dimming of the metal halide lamp.

9. (Original) The illumination device of claim 8, wherein,
the means includes an electronic ballast for supplying power to the electrodes
of the metal halide lamp, and
the electronic ballast is capable of regulating the power within a range
from 25% of a rating to the rating.

10. (Previously presented) An illumination device comprising:
the metal halide lamp of claim 2; and
means for performing dimming of the metal halide lamp.

11. (Previously presented) An illumination device comprising:
the metal halide lamp of claim 3; and
means for performing dimming of the metal halide lamp.

12. (Previously presented) An illumination device comprising:
the metal halide lamp of claim 4; and
means for performing dimming of the metal halide lamp.

13. (Previously presented) An illumination device comprising:
the metal halide lamp of claim 5; and
means for performing dimming of the metal halide lamp.

14. (Previously presented) An illumination device comprising:
the metal halide lamp of claim 6; and
means for performing dimming of the metal halide lamp.

15. (Previously presented) An illumination device comprising:
the metal halide lamp of claim 7; and
means for performing dimming of the metal halide lamp.